

DESCRIPTIVE ABSTRACT

This deals with a magnetic actuator including a mobile magnetic part (4), a fixed magnetic part (5) and means (6) for triggering the displacement of the mobile magnetic part (4) relatively to the fixed magnetic part (5). It includes at least two amagnetic supports (1, 2), placed in different planes, delimiting a gap (3) between them, the fixed magnetic part (5) being integral with at least one of the supports (1, 2). The supports (1, 2) each have an abutment area (10, 20) for the mobile magnetic part (4), the abutment area (10, 20) being distinct from the fixed magnetic part (5). The mobile magnetic part (4) is in levitation in the gap (3) between both supports (1, 2) by means of magnetic guiding due to the fixed magnetic part (5) when it does not abut against the abutment area (10, 20) of one of the supports (1, 2). The mobile magnetic part (4) is able to assume several stable magnetic positions; in each of these positions, it abuts against a support (1, 2).

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Fig. 5A.